5

10

25

What is claimed is:

- 1. A resin composition for a separator of a fuel cell, which comprises an electroconductive agent and a radical-polymerizable thermosetting resin system.
- 2. A resin composition according to Claim 1, wherein the radical-polymerizable thermosetting resin system comprises at least a radical-polymerizable resin.
 - 3. A resin composition according to Claim 1, wherein the radical-polymerizable thermosetting resin system comprises a radical-polymerizable resin and a radical-polymerizable diluent.
 - 4. A resin composition according to Claim 2, wherein the radical-polymerizable resin comprises a vinyl ester-series resin.
- 5. A resin composition according to Claim 2, wherein the radical-polymerizable resin comprises a vinyl ester-series resin in which (meth)acrylic acid is added to a bisphenol-type epoxy resin.
- A resin composition according to Claim 2,
 wherein the double bond equivalent of the radical-polymerizable resin is 200 to 1,000.
 - 7. A resin composition according to Claim 1, wherein the hardened radical-polymerizable thermosetting resin system has a glass transition temperature of 120 °C or more.
 - 8. A resin composition according to Claim 3, wherein the radical-polymerizable diluent comprises at

5

20

least an aromatic vinyl compound.

- 9. A resin composition according to Claim 1, wherein the weight ratio of the electroconductive agent to the radical-polymerizable thermosetting resin system is 55/45 to 95/5.
- 10. A resin composition according to Claim 1, wherein the electroconductive agent comprises a carbon powder.
- 11. A resin composition according to Claim 1, which comprises a carbon powder, a radical-polymerizable vinyl ester-series resin having a plurality of α , β -ethylenically unsaturated double bonds, and a monomer having α , β -ethylenically unsaturated double bond, wherein the weight ratio of the vinyl ester-series resin to the monomer is 100/0 to 20/80, and the weight ratio of the carbon powder to the total amount of the vinyl ester-series resin and the monomer is 55/45 to 95/5.
 - 12. A resin composition according to Claim 1, which comprises a carbon powder, a vinyl ester-series resin formed by adding a (meth)acrylic acid to a bisphenoltype epoxy resin and a radical-polymerizable diluent comprising at least a styrene, wherein the double bond equivalent of the vinyl ester-series resin is 200 to 800.
- 13. A resin composition according to Claim 1, which25 further comprises a low-profile agent.
 - 14. A resin composition according to Claim 13, wherein the low-profile agent comprises at least one

member selected from the group consisting of a styrenic thermoplastic elastomer, a saturated polyester-series resin, and a vinyl acetate-series polymer.

- 15. A resin composition according to Claim 13,

 5 wherein the amount of the low-profile agent is 0.1 to 30 parts by weight relative to 100 parts by weight of the radical-polymerizable thermosetting resin system.
 - 16. A separator for a solid polymer-type fuel cell formed with the resin composition recited in Claim 1.
- 17. A process for producing the separator recited in Claim 16 which comprises molding the resin composition recited in Claim 1 by a resin molding method.
 - 18. A process according to Claim 17, which comprising kneading the resin composition recited in Claim 1 with a pressure kneader and molding the kneaded one.
 - 19. A process according to Claim 18, wherein the pressure in the pressure kneader is 0.1 x 10^5 to 10×10^5 Pa.
- 20. Use of a resin composition for a separator of a fuel cell, wherein the resin composition comprises an electroconductive agent and a radical-polymerizable thermosetting resin system.

15